

ITEM 3
MANAGER'S REPORT NO. 65
COUNCIL MEETING Oct. 7/74

Re: Burnaby Electrical By-law 1974 - No. 6494

Following is a report from the Chief Building Inspector regarding Burnaby Electrical By-law 1974 - No. 6494.

The Subject By-law is attached. The words "owner" and "person" as used in the By-law, are defined as follows:

"Owner"

"Owner" in respect of any real property means the registered owner of an estate in fee-simple, and in the event of there being registered a life estate includes the tenant for life. In the event that there is registered an agreement for sale and purchase, "owner" means the registered holder of the last registered agreement for sale and purchase. In the case of real property held in the manner mentioned in Sections 335 and 336, "owner" means the holder or occupier as therein set out. In the case of real property situated within a municipality incorporated under subsection (3) of section 10A, "owner" includes an Indian who is an owner as provided in the Letters Patent of such municipality;

"Person"

"Person" includes any corporation, partnership, or party, and the heirs, executors, administrators, or other legal representatives of such person, to whom the context can apply according to law.

By-law No. 6404 is included on Council's Agenda for first, second and third readings.

RECOMMENDATIONS:

THAT By-law No. 6494, Burnaby Electrical By-law 1974, be brought forward; and

THAT the effective date for the By-law be fourteen days after the date on which it is finally adopted.

26 September, 1974

Mr. M. J. Shelley
MUNICIPAL MANAGER

Dear Sir:

Subject: Burnaby Electrical By-law 1974 - No. 6494

Earlier this year, during preparation of an amendment By-law to Burnaby Electrical By-law No. 761, to alter electrical permit fees, the Municipal Solicitor recommended that our existing Electrical By-law, first adopted in 1928, be replaced by a By-law adopting the Canadian Electrical Code pursuant to the enabling legislation of Section 719(1)(b) of the Municipal Act.

The proposed By-law, No. 6494, has been drafted by the Solicitor and upon review found complete and satisfactory to this Department. The By-law is wholly administrative--all electrical technical regulation is as set forth in the Canadian Electrical Code as that Code is adopted by Order-in-Council pursuant to the Electrical Energy Inspection Act in the Province of British Columbia. The permit fee schedule is as adopted by Council earlier this year and now reproduced in By-law No. 6494.

(cont'd)

Mr. M. J. Shelley
MUNICIPAL MANAGER

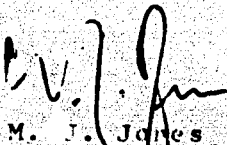
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RECOMMENDATION:

It is herein recommended that By-law No. 6494 be presented to Council for adoption to come into force and take effect **fourteen** days after final reading.

Respectfully submitted,



M. J. Jones
CHIEF BUILDING INSPECTOR

MJJ:cmg

c.c. () Municipal Solicitor

THE CORPORATION OF THE DISTRICT OF BURNABY

BY-LAW NO. 6494

A BY-LAW to regulate and control the installation, alteration, repair, use, operation and maintenance of electrical wiring and equipment.

The Council of The Corporation of the District of Burnaby ENACTS as follows:

1. This By-Law may be cited as "BURNABY ELECTRICAL BY-LAW 1974".
2. The Canadian Electrical Code, Part I (Eleventh Edition) with supplements, amendments, and revisions thereto made from time to time (hereinafter called "The Electrical Code") is adopted and made applicable within the Municipality of Burnaby.
3. In this By-Law, unless the context otherwise requires,
 - (a) "Construct" includes install, alter, repair, maintain, use, operate.
 - (b) "Owner" shall have the same meaning as in the Municipal Act R.S.B.C.
 - (c) "Municipality" means the Municipality of Burnaby.
 - (d) "Person" shall have the same meaning as in the Interpretation Act. R.S.B.C.
 - (e) "Inspector" includes the Chief Building Inspector, Supervisor - Electrical Inspections and Electrical Inspectors of The Corporation of the District of Burnaby.
4. The Chief Building Inspector shall
 - (a) require that all the provisions of this by-law be enforced
 - (b) maintain and keep records of all electrical installations and electrical works undertaken and the inspection thereof.

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5. The Inspector is authorized to enter at all reasonable times into and upon any property in the Municipality in order to ascertain whether or not this by-law or the regulations contained therein are being obeyed or to enforce and carry the same into effect.
6. Any person obstructing the entry or attempted entry of the Inspector into or upon any property in the Municipality in pursuance of his duties under this by-law or other lawful enactment shall be guilty of an offense.
7. No person shall hinder or prevent the Inspector from entering into or upon or inspecting any property in the Municipality whenever necessary to secure compliance with or prevent a violation of the provisions of this by-law or other lawful enactment.
8. The Inspector shall decide whether any method, type of equipment, material or wiring used in any electrical installation or electrical work conforms to the requirements and provisions of this by-law.
9. The Inspector shall suspend or order the correction, or suspend and order the correction, of all or any portion of any electrical installation or electrical work, including any alteration or repair of same, by attaching a notice to that effect on the said electrical installation or said electrical work or on the premises where the said electrical installation or said electrical work is being done or has been done or by serving a notice to that effect on the owner, tenant or occupier of the said premises whenever the Inspector finds that all or any portion of such electrical installation or electrical work
- (a) is not being performed in accordance with this by-law, or
 - (b) has not been performed in accordance with this by-law, or
 - (c) is in an unsafe condition, or
 - (d) is in contravention of this by-law.

10. Whenever the Inspector is of the opinion that any electrical installation or electrical work installed, used in, or being altered or repaired in any premise, or any premise, is for any reason dangerous to person or to property he may, by notice in writing given to the owner of the premises or the electrical installation or electrical work, order, within a time to be stated in the notice, discontinuance of the use of the premises or the electrical installation or electrical work, or the making of such alterations or repairs. If, in the opinion of the Inspector, such electrical installation or electrical work are of immediate danger to persons or property, he may cause same to be disconnected.

11. In the event of fire, storm or other emergency, if, in the opinion of the Inspector, life or property is likely to be endangered by the existence or operation of any electrical installation or electrical work, he may require the owner of such electrical installation or electrical work forthwith to disconnect or remove the same as directed and in the event of the owner failing or declining to do so then the Inspector may cause the same to be disconnected or removed.

12. The Inspector may notify the owner of any property on or in which there are any dead wires, unused poles or unused electrical works, to remove the same within a time to be stated in the notice.

13. All new electrical installations or electrical works and such portions of existing electrical installations and electrical works as may be affected by new electrical installations or electrical works or by any changes shall be subject to inspection by the Inspector.

14. No electrical installation or electrical work which has been installed, altered, or repaired shall be used or operated until it has been inspected by the Inspector and found to conform to provisions of this by-law.

15. No electrical installation or electrical work or part thereof shall be covered or concealed until it has been inspected and approved by the Inspector. If any electrical installation or electrical work or part thereof is covered or concealed before being inspected and approved, it shall be uncovered upon direction of the Inspector.

16. No person shall connect or reconnect or cause to be connected or reconnected any electrical installation or electrical work to any source or medium of electrical energy, without first obtaining the written approval of the Supervisor - Electrical Inspections.

17. The Inspector shall not approve the connection of any electrical installation or electrical work to any source or medium of electrical energy until

- (a) A Certificate of Occupancy for the building, where the electrical installation or electrical work has been installed, has been issued by the Chief Building Inspector, or,
- (b) A Temporary Current Permit has been obtained pursuant to the provisions of this by-law.

18. A good standard of workmanship must be used in the installation of all electrical installations or electrical works, and the Electrical Inspector may order the correction of any electrical installation or electrical work which he considers is being or has been improperly done.

19. Before any person shall install, construct, alter or repair any electrical installation or electrical work in the Municipality, or shall commence doing any construction work in relation to or in connection with any such electrical installation or electrical work, he shall obtain a permit for such electrical installation or electrical work from the Chief Building Inspector or Supervisor - Electrical Inspections, after first having made application in writing therefor.

20. (a) No person shall commence any electrical installation or electrical work for a Commercial or Industrial premise until he has submitted electrical plans and specifications for such electrical installation or electrical work to the Supervisor - Electrical Inspections and obtained from him approval of such plans and specifications.
- (b) The approval of plans and specifications and the issuance of a permit shall not prevent the Supervisor - Electrical Inspections from thereafter requiring the correction of errors in the said plans and specifications or from correcting the electrical installation or electrical work or from suspending the electrical installation or electrical work where there is a violation of this by-law.
21. The Regulation made by Order in Council 1999, June 12, 1973, governing permits and fees with supplements, amendments and revisions thereto made from time to time is adopted with the only exception of fee schedules.
22. The application for permit shall:
- (a) be accompanied by fee prescribed as set out in Appendix "A",
- (b) be made in the form prescribed by the Chief Building Inspector and signed by the applicant.
23. The Chief Building Inspector or Supervisor - Electrical Inspections may refuse to issue a permit or an annual permit:
- (a) for any addition, alteration or repairs or an extension to any wiring system, in, on, or through any building or place where the existing wiring is not in accordance with the provisions of this by-law.
- (b) where the applicant has been notified of a violation of any part of this by-law in regard to the electrical installation or electrical work of another building or

place for which he has been responsible and such violation has not been remedied.

24. The Chief Building Inspector or Supervisor - Electrical Inspections may revoke a permit where:

- (a) there is a violation of
 - (i) any condition under which the permit was issued, or
 - (ii) any provision of this by-law.
- (b) the permit holder has not remedied violation of any part of this by-law in regard to other electrical installations or electrical works in or on another building or place.

25. Nothing contained in this by-law shall be deemed or construed to relieve any person owning, operating, constructing, installing, altering, or repairing any electrical installation or electrical work from any liability for damage to any person injured by the construction, installation, alteration, repair or operation of the same, nor shall the Corporation be deemed to have assumed any liability by the reason of the inspection hereinbefore authorized.

26. It shall be unlawful for any person to construct or maintain or cause to be constructed or maintained any electrical installation or electrical work in a manner contrary to any direction, instruction, specification or provision contained in or adopted by this by-law or any notice lawfully given or posted pursuant to the provisions of this by-law or without any permit hereby required or contrary to the condition upon which any permit has been issued pursuant to this by-law; or to fail or refrain from doing or taking, any act or precaution required to be done or taken prior to or in doing anything permitted by this by-law or by any notice lawfully given or posted pursuant to the provisions of this by-law.

27. Every person who violates any of the provisions of this by-law, or who causes, suffers or permits any act or thing to be done in contravention or in violation of any of the provisions of this by-law, or who neglects or refrains from doing anything required to be done by any of the provisions of this by-law or who neglects or refrains from doing

anything required to be done by any notice given pursuant to the provisions of this by-law or who carries out or who suffers, causes or permits to be carried out any electrical installation or electrical work in a manner prohibited by or contrary to any of the provisions of this by-law or who fails to comply with any order, direction or notice given under this by-law shall be deemed to be guilty of an infraction of this by-law and shall be liable to the penalties hereby imposed. For each day that a violation is permitted to exist, it shall constitute a separate offence.

28. Every person who violates any of the provisions of this by-law shall be guilty of an offence punishable on summary conviction and shall be liable to pay a fine not exceeding \$500.00, nor less than \$100.00 for each offence, or to imprisonment for 30 days or both.

29. Where an offence against this by-law is of a continuing nature, it shall be lawful for the convicting magistrate, in his discretion, to impose a fine against the offender not exceeding fifty dollars for each day such offence is continued by him.

30. By-Law No. 761, being the "Burnaby Electrical Inspection By-Law 1928", and amendments thereto, are hereby repealed.

31. This by-law shall come into force and take effect on the day of 1974.

Read a first time this day of 1974

Read a second time this day of 1974

Read a third time this day of 1974

Reconsidered and adopted this day of

1974.

M A Y O R

C L E R K

APPENDIX "A"

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THE CORPORATION OF THE DISTRICT OF BURNABY

ELECTRICAL PERMIT FEE SCHEDULE

(1) Minimum permit fee	\$ 6.00
(2) Services --For each service	
(a) up to 750 volts,	
200 amperes or less	6.00
201 to 400 amperes	8.75
401 to 600 amperes	12.50
601 to 1,200 amperes	18.75
over 1,200 amperes	31.25
(b) over 750 volts, each service	31.25

and shall be in addition to fees for any other portions of an installation.

(3) Panelboards --For each panelboard,	
16 circuits or less	6.00
17 to 24 circuits	8.75
25 to 32 circuits	12.50
33 to 42 circuits	15.00

and shall be in addition to fees for other portions of an installation.

Each section of a special assembly containing more than one panelboard shall be charged as a panelboard.

(4) Switchboards --For each switchboard	
(a) up to 750 volts,	
one panel	8.75
each additional panel	6.25
(b) over 750 volts,	
one panel	18.75
each additional panel	12.50

and shall be additional to fees for any other portions of an installation.

An industrial control centre shall be considered a switchboard.

(5) Distribution centre --For each distribution centre	
(a) up to 750 volts,	
200 amperes or less	8.75
201 to 400 amperes	12.50
401 to 600 amperes	15.00
601 to 1,200 amperes	18.75
over 1,200 amperes	31.25

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- (5) (b) over 750 volts,
 one panel \$18.75
 each additional panel 8.75

and shall be in addition to fees for any other portions of an installation.

(6) Outlets and fittings --

- (a) For rough wiring shall be chosen from columns 2 or 3 in accordance with the number of outlets.
 (b) For fixtures and fittings shall be selected from column 4 in accordance with the number of fixtures and fittings.

For the purpose of determining the number of outlets for rough wiring, each switch shall be considered as an outlet.

No. of Outlets or Fixtures and Fittings	Rough Wiring		Fixtures & Fittings
	Knob & Tube NMS	Conduit EMT Armoured Cable Metal Sheath Cable	
Col. 1	Col. 2	Col. 3	Col. 4
1 - 10	3.00	5.00	3.00
11 - 20	5.00	7.50	5.00
21 - 50	12.50	16.25	10.00
51 - 100	22.50	27.50	17.50
101 - 150	30.00	37.50	23.75
151 - 200	37.50	48.75	31.25
201 - 300	52.50	63.75	40.00
301 - 400	65.00	80.00	51.25
401 - 500	81.25	96.25	62.50
501 - 750	118.75	137.50	90.00
751 - 1,000	150.00	175.00	118.75

For quantities in excess of 1,000, an additional fee from the appropriate columns 2, 3 or 4 shall be chosen for the corresponding additional quantity of outlets listed in column 1.

- (7) Billboards --For each flasher \$5.00

and shall be in addition to charges for service, distribution centre or panelboard, and outlets.

(8) Floodlighting --

- (a) For floodlighting outlets of less than 200 watts each--in accordance with subsection (6).
 (b) For floodlighting outlets of 200 watts each or larger,
 1 - 10 outlets 10.00
 11 - 20 outlets 16.25
 21 - 50 outlets 31.25
 51 -100 outlets 56.25

and shall be additional to those for services, panelboards, or distribution centres.

- (9) Street lighting --Each standard or unit 2.50

and shall be in addition to the fee for service, panelboard or distribution centre.

(10) Traffic Signals

- (a) For flasher service and control \$ 8.75
- (b) For flasher signals, each 3.75
- (c) For flasher signals in curb or equivalent 1.25
- (d) For traffic controller 6.25
- (e) For traffic-control signals, each head 3.75

(11) Transformers and capacitors -- Ratings listed shall be deemed to be the kva. rating of individual single-phase transformers or assemblies of capacitors.

In the case of a three-phase bank composed of three single-phase units, the fee shall be calculated as three times the fee for an individual single-phase unit.

For each transformer or assembly of capacitors,

- Up to 15 kva. each 6.25
- Over 15 to 100 kva. each 12.50
- Over 100 to 500 kva. each 18.75
- Over 500 to 1,500 kva. each 31.25
- Over 1,500 kva. each 37.50
- Minimum fee for a transformer vault shall be 50.00

(12) Motors --

(a) A motor by single-phase fractional horsepower rating approved for connection by means of a flexible cord and an attachment cap to a branch circuit protected by over-current devices rated or set at 15 amperes or less shall be charged for as an outlet under subsection (6).

(b) For each motor other than those set forth in clause (a), other than those up to 750 volts,

- (i) up to 2 hp. 3.75
- over 2 hp. to 10 hp. 5.00
- over 10 hp. to 50 hp. 8.75
- over 50 hp. to 200 hp. 12.50
- over 200 hp. to 500 hp. 18.75
- over 500 hp. 25.00
- (ii) over 750 volts,
- up to 100 hp. 18.75
- over 100 hp. to 500 hp. 25.00
- over 500 hp. 31.25

and shall be additional to those for a service, distribution centre, or switchboard.

(13) Carnivals --For each "stand" of the carnival,

- (a) for a temporary current permit which shall expire seven days after its effective date ... 31.25
- (b) notwithstanding clause (a), a temporary current permit for a carnival may, on its expiry, be revalidated for a further period not exceeding seven days for a fee of 18.75

(14) Overhead electric lines --For each pole 2.50

and shall be in addition to fees for transformers, capacitors, services, or other installed equipment.

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(15) Fuel-burning equipment --

(a) For domestic types,

- (i) each installation \$ 5.00
- (ii) as (i), with air-conditioning equip-
ment 7.50
- (iii) air-conditioning equipment, addition
to existing installation 5.00

(b) For commercial types,

- (i) up to 500,000 Btu./hr. 12.50
- (ii) over 500,000 Btu./hr. 31.25
- (iii) air-conditioning equipment installed
with (i) or (ii) 18.75

(16) Fuel-dispensing equipment --Each dispenser 8.75

and is additional to those for a service or distribution centre.

(17) Generators and rectifiers --For electrical generators and rectifiers, shall be as for motors (see subsection (12)). For the purposes of permit fee calculation, the kva. rating of an a.c. generator or the kw. rating of a d.c. generator shall be deemed equivalent to the horsepower rating of a motor.

(18) Heating apparatus --

(a) For commercial equipment,

- up to 10 kw. per unit 3.75
- over 10 kw. to 20 kw. per unit 6.25
- over 20 kw. to 50 kw. per unit 10.00
- over 50 kw. to 100 kw. per unit 12.50
- over 100 kw. to 500 kw. per unit 18.75
- over 500 kw. per unit 25.00

(b) For the wiring for and installation of domestic equipment, each range, water-heater, drier, baseboard or unit heater, heating cable set, oven, or cooking-top 2.50

(19) Outline lighting or sign lighting --

(a) For outlets or sign receptacles, per subsection (6).

(b) For flashers, each 5.00

and shall be additional to those for services and distribution centres.

(20) Electric discharge lighting systems --

- For up to 1,000 lineal feet 37.50
- Over 1,000 to 2,000 lineal feet 50.00
- Over 2,000 to 5,000 lineal feet 75.00
- Over 5,000 lineal feet 93.75

Continuous-row fluorescent lighting installations composed of approved fixtures shall not be included in the above classification (see subsection (6)).

(21) Theatres --

(a) For permanent wiring of theatres, fees shall be as set forth in the various schedules herein.

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- (21) (b) For examination of a projection booth installation or portable stage equipment \$31.25
- (c) For a travelling company, in accordance with subsection (13).
- (22) X-ray equipment --Each installation of fixed X-ray equipment 25.00
- and shall be in addition to the fee for special transformers intended to supply X-ray circuits.
- (23) Miscellaneous inspections --
- For each hour or portion thereof during regular working hours 20.00
- (24) Signal systems --For the purposes of this regulation a signal system shall include local fire-alarm systems, nurses' call systems, wired television systems within a building, public address systems, doctors' paging systems, clock systems, and other systems of a similar nature.
- (a) For each alarm device, alarm station, signal light, loud-speaker, operator, or other similar device shall be classed as outlets, and the fees shall be in accordance with Schedule 8.06.
- (b) For each control unit 8.75
- (c) For each annunciator not included in a central control unit 6.25
- (25) Single-family and duplex dwellings --
- PERMITS SHALL NOT BE ISSUED TO OWNERS FOR THE WIRING OF DUPLEX DWELLINGS.
- (a) For a new installation or rewire,
- total floor area under 500 sq. ft. 11.25
- total floor area over 500 to 1,000 sq. ft. .. 18.75
- total floor area over 1,000 to 1,500 sq.ft. . 27.50
- total floor area over 1,500 sq. ft. 37.50
- (b) Appliances. For the wiring and installation of each range, water-heater, drier, furnace, heating cable, separate oven, cooking-top, heating panel, baseboard heater, fixed motor-driven equipment ½ to 2 hp., or other appliance 2.50
- (c) Alterations or additions of outlets to 15-ampere branch circuits,
- for 1 - 10 outlets 6.00
- for 11 - 20 outlets 10.00
- for 21 - 50 outlets 20.00
- over 51 outlets 32.00
- (d) Service change,
- for 200 amperes or less 6.00
- for 201 amperes to 400 amperes 8.75

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- (25) (e) Panel change,
 - for 16 circuits or less \$ 6.00
 - for 17 to 24 circuits 8.75
 - for 25 to 32 circuits 12.50
 - for 33 to 42 circuits 25.00

- (26) Temporary current permit, excluding carnivals --
 - (a) Initial period 6.00
 - (b) Renewal 6.00

- (27) Reinspection permits --
 - For a reinspection permit
 - (a) Residential 12.50
 - (b) Commercial or industrial 20.00

- (28) Annual Permit --
 - (a) For a Commercial or Industrial Annual Permit,
 - (i) per kva. of service capacity06
 - Adjusted to the nearest dollar; or
 - (ii) minimum fee 25.00
 - (iii) maximum fee 900.00
 - whichever is greater.

 - (b) For an Educational Facility Annual Permit, each
classroom, shop, laboratory, board office15